

## CLAIMS

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1. A vehicle hinge assembly for hanging a vehicle door on a vehicle body, the assembly comprising a first hinge leaf hingedly connected to a second hinge leaf by a pivot pin, the pivot pin being immovably mounted in one hinge leaf and being rotatably mounted in, and being axially withdrawable from, the other hinge leaf, and hinge pin retention means associated with said other hinge leaf for preventing axial withdrawal of the hinge pin therefrom, the hinge pin retention means having hinge pin engagement means movably mounted between first and second positions, the engagement means in its first position engaging with the hinge pin to permit rotation of the hinge pin but prevent its axial movement relative to said other hinge leaf, and in its second position being spaced from the hinge pin to permit its axial withdrawal from said other hinge leaf.
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2. A hinge assembly according to Claim 1 wherein the hinge pin is provided with an annular groove which co-operates with said hinge pin engagement means to permit rotation of the hinge pin whilst preventing its axial withdrawal.
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3. A hinge assembly according to Claim 1 or 2 wherein said hinge pin engagement means is a ball bearing.
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4. A hinge assembly according to Claim 3 wherein each hinge leaf comprises a body cast from a metal to define a shell including a boss having a bore in which the hinge pin is located.
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5. A hinge assembly according to Claim 4 wherein said ball bearing is housed in a housing, the housing being axially movably located in a bore formed in the boss of said other hinge leaf.

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6. A hinge assembly according to Claim 5 wherein the bore housing said ball bearing housing is formed in a wall projection integrally cast with said boss of said other hinge leaf, said wall projection being interleaved with  
5 said one hinge leaf over a predetermined angular range of movement about said hinge pin in order to prevent axial separation of the hinge leafs.

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7. A hinge assembly substantially as herein described with reference to and/or as illustrated in the accompanying drawings.

8. A vehicle hinge assembly for hanging a vehicle door on a vehicle body, the assembly comprising a first hinge leaf hingedly connected to a second hinge leaf by a pivot pin, each hinge leaf comprising a body cast from a metal to define a shell including a boss having a bore in which the  
15 hinge pin is located.

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